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F1881.

## COUNCIL PAPER.

No. 72.]

SURGEON-GENERAL'S OFFICE,

29TH SEPTEMBER, 1881.

SIR,

I have the honor to forward for the information of His Excellency the Governor, and the Legislative Council, the Return of successful Vaccinations performed in the Colony during the year 1880.

I enclose also a copy of the Return for the previous year, which though duly forwarded in February, 1880, has not yet been published.

Together with the Returns is submitted, an abstract of the Vaccinations performed each year, since the passing of the Vaccination Ordinance No. 23 of 1872, and of the Births during the corresponding years.

The total number of successful Vaccinations performed in 1880 is 4641, being an increase of 1751 over the number of the preceding year 1879. In my report for that year, I pointed out that there had been a falling off in the Vaccinations, due to illness of Medical Officers, failure of Lymph supply, &c.

During 1880 effective measures were in operation to maintain the Lymph supply, the year was comparatively healthy, and the District Medical Officers had more leisure and opportunities for vaccination.

One of the Medical Officers attached to the Hospital, was sent specially to vaccinate in the Mornga Ward, which from its remoteness, had been neglected since the passing of the Ordinance.

With the able assistance of the Ward Constable, all the children under the prescribed age, 16, were sought out, and all but one successfully vaccinated.

The total number of Vaccinations performed in the Ward was 175, while the total number of births registered, in the 8 years that had elapsed since the passing of the Ordinance, is 178.

From these figures it may be inferred, that the Vaccination of the Juvenile portion of the population of that Ward has been very complete.

The same Medical Officer also performed a number of Vaccinations, in the outlying and comparatively neglected Wards of Turure and Matura, when on a special visit to the district, in consequence of an ontbreak of Dysentery.

This plan of sending Medical Officers specially to remote districts, for Vaccination purposes, has answered so well, that it might I think be continued with advantage, as occasion requires.

From the Abstract of the Yearly Returns it will be seen that the total number of births registered since 1872 has been 36,516 and that the total number of successful Vaccinations for the same period has been 27,393.

The deaths of children occurring within 3 months after birth, at which age vaccination in this Colony practically commences have been estimated from the statistics of the past 4 years to amount to 10½ per cent. of the births.

A Return of the deaths of children under 3 months during the past 4 years is appended. It is instructive as shewing the relative mortality of young infants in different parts of the Colony.

If a deduction is made from the total number of births, of the children dying within 3 months the proportion of vaccinations to the children remaining will be about 85 per cent.

Great care is now taken to maintain the character and efficiency of the Lymph supply by frequent importations of fresh Lymph from England. The quality and protective power of the Vaccinations may therefore be regarded as satisfactory.

Continued experience seems to shew that the Lymph in this climate, from some cause or other, deteriorates by repeated transmissions and that the renewal of the stock from time to time is absolutely necessary to maintain the efficiency of the Vaccinations.

The averago number of vesicles for each child vaccinated during the past year has been over 3. This may be regarded as a fair average.

An opinion has been expressed of late years and has been gaining ground that the protective power of primary Vaccinations depends in some measure on the number of good vesicles produced. Instructions are therefore given to the District Vaccinators to make if practicable not less than 4 insertions of Lymph in each case of primary Vaccination.

Through the attention now paid to Vaccination the protection of the Colony against the possibility of a severe outbreak of Small-pox is yearly increasing and would increase more rapidly were it not for the number of unvaccinated persons coming into the Colony from other West India Islands.

I may mention in concluding this report that a passenger by the Steamer "Muricl," from New York, landed at Port-of-Spain on the 25th of April last, with an eruption which was not recognized as Small-pox, and that on the 6th of May his infant child was discovered to have the characteristic eruption of this disease which later assumed the confluent form and a fatal issue resulted. On the 11th another case of modified Small-pox was discovered which ran a mild course.

A house-to-house visitation was then commenced and carried out with the result of no further cases of the disease being discovered and it was also ascertained at the same time by careful enquiry that there were only some 384 persons (children above 3 months and adults resident in the town who were unprotected from Small-pox by Vaccination or a previous attack of the disease.

It is satisfactory to contrast these results with the epidemic of '71 and '72 when a single imported case spread infection throughout the Colony to 12,351 persons of whom 2,449 died. The number attacked in Port-of-Spain alone was 3,684 and the deaths 852.

I have the honour to be,

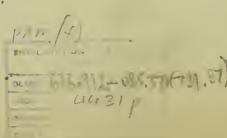
Sir,

Your obedient Servant,

S. LEONARD CRANE, Surgeon-General.

The Hon.

COLONIAL SECRETARY.



RETURN OF VACCINATIONS FOR 1880.

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RETURN OF VACCINATION FOR 1880.-CONTINUED.

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RECAPITULATION OF VACCINATION RETURNS FOR THE YEARS 1873, 1874, 1875, 1876, 1877, 1878, 1879 & 1880.

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1879.	Vaccinations.	270	148	•	226	:	386	146	315	64	51	:	430	286	93	478	33		9666		
	Births.	6.12	208	:	24.8	141	466	244	342	89	274	24	919	297	299	029	52		49122926		
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	Births.	608	181	:	179	137	373	154	297	73	228	27	523	331	265	566	61	Ī	4204 3153		
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RETURN OF VACCINATIONS FOR 1879.

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VACCINATIONS 1879.	3rd	Successful.	36 36 37 40 40 40 40 40 40 40 40 40 40 40 40 40	258
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		Wards or Districts.	Port-of-Spain  Do.  Do.  Do.  Shipping  Mucurapo  Maraval  Diego Martin  Carenage  Chaguaranas  Laventille  St. Ann's  Cimaronero  Aricagua  Santa Cruz  St. Joseph's  Maracas  Maracas  Tacarigua  Arima  Caura  Arima  Gunapo  Toco  Guanapo  Guanapo  Trurre  Toco  Blanchisseuse	
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RETURN OF VACCINATIONS FOR 1879.—CONTINUED.

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		Total Births.	2553	25.0 27.4 11.5	1615
GE FES.		4th Qaarter.	<u> </u>		
AVERAGE No. OF VESICLES.		2nd Quarter.	<del>-                                    </del>	의 : 선생 : 수선 : 현실 : 현실 : 현실 수 다 : : : : : : : : : : : : : : : : : :	المستخل
AVERAGE No. OF VESICLES.		1st Quarter.		ं पान क्षेत्रमध्य : क्षेत्र क्षेत्र पान क्षेत्र : • • •	
	1	Loubtful.	38		81
	Total.	Unsuccessful.	179	2: 13	35981
		Successful	9 1415	13 66 86 86 86 87 71 71 101 101 148 155 155 175 175 175 175 175 175 175 175	46 10 2926
	er.	Doubtful.	35		6110
	Q'ter.	InfasesonanU			
1879.	4th	Successful.	348	3	595
1	Q'ter.	Toubtful.	49 5	0 10 11 1044 1 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	122 30
VACCINATIONS		Unsuccessful.			
CCIN	3rd	Successful.	5 258		388
VA	Q'ter.	Doubtful,	78 15	01 12: 1: 2: 88 88 88 88 88 88 88 88 88 88 88 88 88	13622
	1	Unsuccessful.	665	2 :88 : 25 : 2001	
	2nd	Successful.	6		55 19 1061
	Q'ter.	Unsuccessful.	20	4 1 124 01 H 00 00 12	55 1
	1st Q	Successful	143	:::: 07 03 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	435
		<u> </u>	-:	22 22 22 22 23 24 24 24 24	4
		Total.		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
1879		4th Quarter.	:	2 :: 11 :: 2 :: 2 :: 3 :: 3 :: 3 :: 3 ::	
Віктнѕ 1879.		Srd Quarter.		411110101110101110101110101110101110111	
Bn		2nd Quarter.	-		
		lst Quarter.		7	
.1781	snst	Population Cer		350 1273 1273 1368 1368 1368 1368 1368 1378 1413 178 178 178 178 178 178 178 178 178 178	
			:	:::::::::::::::::::::::::::::::::::::::	
		DISTRICT VACCINATORS.		naggs  I and Jenvey Fabien Do.	
		CINA		Dr. R. H. E. Knaggs  "Do. Do. Do. Do. Dr. Muray Dr. de Vertenil Dr. Jenvey Dr. Chittenden Dr. Chittenden Dr. Lohnstone Dr. Hammond Dr. Hammond Dr. Fitt and Fabien Drs. Fitt and Fabien Drs. Fitt and Fabien Drs. Fitt and Fabien Drs. Thompson Dr. Do. Do. Dr. Do. Dr. Do. Dr. Do. Dr. Do. Dr. Do. Do. Dr. Do. Dr. Dr. Do. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr	
		√AC		Ku:  ii  ar  d  d  l  l  l  l	
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		TRIC		Dr. R. H. E. K. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do	
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		S.	rd		
		Wards or Districts.	Brought forward	ы́≽́х́о́ ы́≯́	1
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		ARI	F F	anilli va rr Car rr Car rr Car rannetta netta rannetta rannetta do. do. do. do. do. do. do. do. do. do.	
		A		Manzanilla Nariva Mayaro Upper Caroni Lover Caroni Chaguanas Carapichaima Conva Savonetta Point-à-Pierre Montserrat North Naparima do. Savana Grande do. Savana Grande do. Savana Grande do. Coppouche Lia Brea Cedros Erin Moruga	
				Maniz Maya Maya Maya Mulpho Coury Coury Coury Month Moru Sava Sava Sava Sava Coury Moru Moru Moru Moru Moru Moru Moru Moru	

RECAPITULATION OF VACCINATION RETURNS FOR THE YEARS 1873, 1874, 1875, 1876, 1877, 1878 & 1879.

.soloiso	Arcrage No. of V	ದ್∢ :ದ್ದೇಷ್ಪ್ವಸ್ಥೆದ್ದರೆ. ಈದರೆಂದರ	අත
-anioo	Percentage of Va-	070 : 420 0 0 4 4 : 82 0 83 7.0 : 48 0 1 1 8 3 : 75 0 8 3	20
*su	roitaniosaV IstoT	4034 841 169 1236 688 1529 1529 1584 1199 1199 258	22752
	redrifi IstoT	6131 1415 1666 873 873 2038 1112 2277 1627 4053 4071 413	31160
	Vesicles.	ಲ್ಲಿಲ್ಲಿ : ಟ್ವ : ಟ್ವ ಟ್ರ	
1879.	Vaccinations.	27.0 14.7 14.5 14.5 15.4 15.4 15.4 15.4 15.4 15.4	2926
	Births.	2002 2003 2445 2445 2503 2503 2503 3603 3603 3603 3603 3603 3603 3603 3	1912
	Vesicles.	्र तः ः व ा ा ा वा व	•
1878.	Vaccinations.	2557 119:00 114-12 120:00 120:00 120:00 130:00 10 10 10 10 10 10 10 10 10 10 10 10 1	3519
	Births.	864 1934 1155 1155 1155 1155 1155 1155 1155 11	1470 3519
	Vesicles.	ಲು :: ೧೨೦೨೦೨೦೨೦ : ೧೩ : ಗಾ ಅ ಎ ಎ ಎ	
1877.	Vaccinations.	172 1422 1622 1632 1632 1633 1634 1634 1634 1634 1634 1634 1634	3356
	Births.	2276 639 641 7276 639 639 641 642 643 643 643 643 643 643 643 643 643 643	4575 3356
	Vesicles.	ରି : ଶିଣିଜରିଶିକରି : ଜଗଟିଟିରୀ	:
1876.	Vaccinations.	900 1169 888 883 886 633 1133 1133 4409 493 493 493 493 493 493 493 49	3599
	Births.	876 225: 26: 26: 24: 31: 873 874 875 875 875 875 875 875 875 875 875 875	4713
	Vesicles.	<u> </u>	
1875.	Vaccinations.	5307 5307 5307 5307 5307 5307 5307 5307	3205
	Births.	83 1936 1936 1938 1938 1938 1938 1938 1938 1938 1938	3964
	Vesicles.	00 00 00 00 00 00 00 00 00 00 00 00 00	
1874.	Vaccinations.	440 1090 1000 1000 1000 1000 1000 1000 1	3153
	Births.	809 1849 1849 1737 1737 1737 1737 1737 1737 1737 173	4204
	Vesicles.	ಲ್ಲಿ ದಿ : ದ್ವರ್ ಜನಗಳ ಪ್ರವರ್ಣ ಪ್ರಾಥ್ ಕ್ಷಾ ಪ್ರವರ್ಣ ಪ್ರಾಥ್ ಪ್ರಾಥ ಪ್ರತ್ಯ ಪ್ರಕ್ಷ ಪ್ರತ್ಯ ಪ್ರಕ್ಷ ಪ್ರತ್ಯ ಪ್ರತ್ಯ ಪ್ರತ್ಯ ಪ್ರತ್ಯ ಪ್ರತ್ಯ ಪ್ರಕ್ಷ ಪ್ರ ಪ್ರಕ್ಷ ಪ್ರತ್ಯ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರತ್ಯ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರತ್ಯ ಪ್ರಕ್ಷ ಪ್ರವ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್ಷ ಪ್ರಕ್	ł
1873.	Vaccinations.	200 200 304 1123 1123 1122 123 123 123 100 100 100 100 100 100 100 100 100 10	4322 2994
	Births.	896 162 162 364 146 328 187 187 187 777	4322
.1781 s	Population Censu	23561 5006  4330 4714 10253 4714 7283 338 336 12779 10433 7549 12472 1278	
Boroughs or Wards,			
		# : : <b>!</b> : : : : : <b>!</b> : <b>!</b> : : : : : : : : : : : : : : : : : : :	
	Воког	Port-of-Spain San Fernando Shipping Arima Cedros Couva Caroni Diogo Martin Mayaro Montserrat Moruga North Naparima Scuth Gararigua Tacarigua	

RETURN OF CHILDREN THAT HAVE DIED UNDER THREE MONTHS IN THE SEVERAL DISTRICTS OF THE ISLAND FOR THE YEARS 1877, 1878, 1879 AND 1880.

	1	.877.		]	1878.		]	1879.		1880.			
Districts.		Births.	Deaths.	Percentage.	Births.	Deaths.	Percentage.	Births.	Deaths,	Percentage.	Births.	Deaths.	Percentage.
Port-of-Spain	•••	908	110	124	864	99	113	942	112	113	1125	132	113
Laventille		61	5	81	74	4	51	77	6	73	76	10	13
St. Ann's	••	<b>3</b> 3			31			28			30	4	133
Santa Cruz	•••	95	9	91	102	5	5	107	7	61	112	11	9
Aricagua		55	6	11	51	4	8	62	4	61	62	0	9
Cimaronero	••.	27	2	71	26	1	33	25	2	8	40	ţ	12
Diego Martin	•••	93	11	113	97	8	-		4	33	106	C	5
Carenage	•••	62	7	111	62	14	_	51	3	10	59		ļ
Chaguaramas	***	34		•••	44		41/2	32	4	123	37	2	5
Mucurapo	••	67	16		83		163		19	211		20	21
Maraval	•••	65	3	43	50	4	8	64	•••	•••	49	8	16
St. Joseph	•••	131	6	-4				168	8	43	155	14	8
Tacarigua	•••	375	22	$5\frac{3}{4}$		23	$7\frac{1}{2}$	381	34	9	417	30	7
Caura	••	62	2	31	58		7	64	4	63	58	2	3
Maracas		64	1	$1\frac{1}{2}$	75		$2\frac{3}{4}$		2	31	69	3	4
Arima	•••	170	8	-2 43	204	11	51	188	18	_	212	19	9
Guanapo	•••	16	3	9	22	1	434	36	1	23	16	••.	•••
Blanchisseuse	•••	26	2	$7\frac{3}{4}$	29	4	13	27	3	11	42	5	4
Turure		19	•••	•••	27	1	33	24	2	81	28	1	3
Toco		38	1	23	38	4	103	25	•••	•••	34	S	9
Lower Caroni	•••	51	7	$13\frac{3}{4}$	36	6	163	48	4	81	41	ှင့	7
Chaguanas		79	11	14	92	16	$\frac{104}{17\frac{1}{4}}$	137	15	103	133	31	23
Carapichaima	•••	15	4	261	27	2	$7\frac{1}{2}$	30	3	10	20	]	5
Savonetta	•••	132	22	$16\frac{1}{2}$	134	16	12	157	12	73	190	29	15
Couva	•••	134	17	123	125	12	93	139	16	113	141	14	9
Montserrat	•••	253	25	93	234	19	8	274	19	7	302	28	9
Upper Caroni	•	35	•••	•••	39	1	31	59	•••		62	4	6
Manzanilla		20	4	20	16	1	61	23	2	٠٠. ٤ <u>३</u>	9	2	22
San Fernando	•••	214	15	7	193	26	131	208	27	13	221	34	15
Pointe-à-Pierre	•	121	15	124	127	18	14	140	12	83	140	15	9
North Naparima		175	26	15	175	35	20	178	11	61	178	19	13
South Naparima		239	26	103	227	22	93	229	23	10	254	24	9
Savana Grande	•••	464	50	103	393	43	103	438	41	91	534	72	13
Cedros		76	8	$10\frac{3}{4}$	96	10	10	100	8	8	105	9	8
Erin	• • •	40	1	21/2	22	•••		41	2	13	35	$\epsilon$	17
La Brea	•••	5	2	40	16	3	184	10	••	1	7		-
Oropouche	•••	37	8	213	38	2	51	55	11	19	60	14	23
Moruga	**	19	1	514	23	1	43	24	5	203	25	2	8
Nariva	•••	12	1	81	• 6	1	163	8	1	121	13	3	23
Mayaro	•••	53	10	183	53	7	131	58	7	12 <sub>4</sub>	35	9	16
and a second	•••		10	104			104			12	30		10
		4575	467	101	4470	459	101	4912	453	91	5346	604	11

## VACCINATION.

Return of successful Vaccinations for 1880.

## LEGISLATIVE COUNCIL.

1st October, 1881.